

MATERIAL/CHEMICAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Details

Product Name: Diamond & CBN Wafering Blades

Allied Item No.: 60-20065 through 60-30015

Chemical Name: Diamond or Cubic Boron Nitride Grinding Wheel

Company Identification

Allied High Tech Products, Inc.
2376 East Pacifica Place
Rancho Dominguez, CA 90220
(310) 635-2466

Contact Point

Transportation for United States
Chemtrec (800) 424-9300 * (202) 483-7616

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Exposure Limits in Air		Carcin. Y/N
		ACGIH TLV or TWA	OSHA PEL	
Aluminum Oxide 5-10%	1344-28-1	10 mg/m3	15 mg/m3	
Aluminum 60-90%	7429-90-5	0 mg/m3	15 mg/m3	
Cubic Boron Nitride 1-5%	10043-11-5	10 mg/m3	10 mg/m3	
*Cobalt 1-5%	7440-48-4	.02 mg/m3	.05 mg/m3	
*Copper 1-10%	7440-50-8	.20 mg/m3	.10 mg/m3	
Cured Phenol Formaldehyde Resin 1-5%	9003-35-4	0 ppm	0 ppm	
Diamond 1-5%	7782-40-3	0 ppm	0 ppm	
Graphite Powder 15-20%	7782-42-5	2 mg/m3	10 mg/m3	
Iron 70-80%	7439-89-6	1 mg/m3	1 mg/m3	
*Manganese 3%	7439-96-5	1 mg/m3	1 mg/m3	
Molybdenum 1%	7439-98-7	10 mg/m3	10 mg/m3	
*Nickel 1-10%	7440-02-0	1 mg/m3	1 mg/m3	
*Phosphorus (yellow) 1%	7723-14-0	.10 mg/m3	.10 mg/m3	
Amorphous Silica (fused) 1-5%	60676-86-0	.10 mg/m3	.10 mg/m3	
**Crystalline Silica (quartz) 1%	14808-60-7	.10 mg/m3	.10 mg/m3	
Silicon 5%	7440-21-3	10 mg/m3	10 mg/m3	
Silicon Carbide 1-10%	409-21-2	10 mg/m3	10 mg/m3	
*Silver 1-5%	7440-22-4	.10 mg/m3	.01 mg/m3	
Tin 1-5%	7440-31-5	2 mg/m3	2 mg/m3	
Tungsten Carbide 1-5%	12070-12-1	0 mg/m3	0 mg/m3	

* See Section 15

** See Section 4

Ingredients are listed on the TSCA Inventory of Chemical Substances.

Those not identified are non-hazardous.

HMIS Ratings

Health: 1

Flammability: 0

Reactivity: 0

SECTION 3: HAZARDS IDENTIFICATION

Hazard Statement: For products containing phenol/formaldehyde resin, dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction. For products containing inorganic fluorides, excessive exposure to inorganic fluorides have been shown to increase bone density.
** Test with products known to contain Crystalline Silica did not produce any detectable amount of respirable free Crystalline Silica.

SECTION 4: FIRST AID MEASURES

Potential Health Effects		First Aid/ Medical Info.
Eye Contact:	Dust may irritate eyes.	Flush with water, seek medical attention if irritation persists.
Skin Contact:	Dust may irritate skin.	Wash affected areas with soap and water. Seek medical attention.
Inhalation:	Dust may be slightly irritating to respiratory tract at high concentrations. Chronic: May affect breathing capacity.	Remove to fresh air. Seek medical attention.
Ingestion:	NAIF	Seek medical attention.

Note:

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical or water.

Fire Fighting Instruction: None

Special Hazards: NAIF

SECTION 6: ACCIDENTAL RELEASE MEASURES

Follow normal clean up procedures.

SECTION 7: HANDLING & STORAGE	SECTION 12: ECOLOGICAL INFORMATION
<p>Handling: Always handle and store wheels in a careful manner, visually inspect all wheels before mounting and check machine speed against the established maximum safe operating speed marked on the wheel.</p>	<p>Vitrified products do not appreciably decay. Resin bonded materials demonstrate similar degradation rates as Phenolic plastics. Metal bonded products do not appreciably decay.</p>
SECTION 8: EXPOSURE CONTROL & PERSONAL PROTECTION	SECTION 13: DISPOSAL INFORMATION
<p>Engineering Measures: Local ventilation recommended.</p> <p>Respiratory Protection: Use OSHA/NIOSH approved respiratory protection if level of air contaminants is excessive.</p> <p>Protective Gloves: As desired by user.</p> <p>Eye Protection: Safety glasses or chemical splash goggles.</p> <p>Other: Ear protection recommended when using this product.</p>	<p>Use standard landfill methods according to Federal, State and Local regulations.</p>
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	SECTION 14: TRANSPORT INFORMATION
<p>Appearance: Solid article Odor: Odorless Solubility: NA Boiling Point: NA Melting Point: NA Flash Point: NA Vapor Pressure: NA Vapor Density: NA Evaporation Rate: NA Specific Gravity: NA Flammable Limits LEL: NA Flammable Limits UEL: NA</p>	<p>DOT: This product is not defined as hazardous.</p> <p>Canadian Transportation of Dangerous Goods Act: This product is not regulated.</p>
SECTION 10: STABILITY & REACTIVITY	SECTION 15: REGULATORY INFORMATION
<p>Stability: Stable</p> <p>Conditions to Avoid/Incompatibles: NA</p> <p>Decomposition Products: In use, dusts and decomposing odors may be generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products. For products containing phenol and formaldehyde resin, thermal decomposition may produce trace amounts of phenol and formaldehyde. For products containing inorganic fluorides, thermal decomposition may produce trace amounts of fluorides.</p> <p>Hazardous Polymerization: Will not occur.</p>	<p>*OSHA: The exposure limit represented in Section 2 is for respirable dust and assumed to be worst case exposure to 100% crystalline silica.</p> <p>Toxic Substance Control Act TSCA: All ingredients are TSCA listed.</p> <p>CA Prop 65: This product is considered an accessory to power tools by the State of California and therefore does not require labeling.</p> <p>Canadian NPRI: This is a controlled product.</p> <p>Emergency Planning & Community Right-To-Know Act (Section 313): This product is regulated.</p> <p>Domestic Substance List: All components of this product are found on the Domestic Substance List.</p>
SECTION 11: TOXICOLOGICAL INFORMATION	SECTION 16: OTHER INFORMATION
<p>Carcinogenicity:</p> <p>Nickel: EPA-A, IARC-2B, NTP-R, NIOSH-X, MAK-1 Cobalt: IARC-2B, NAK-2 Crystalline Silica (quartz): IARC-2A, NIOSH-X, NTP-R Silver: EPA-D Phosphorous (yellow): EPA-D Copper: EPA-D Manganese: EPA-D</p> <p>Values are not appropriate or available.</p>	<p>Legend</p> <p>NAIF: No Applicable Information Found NA: Not Available/Applicable NE: None Established</p> <p>DISCLAIMER: The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. ALLIED HIGH TECH PRODUCTS, INC. makes no warranty, either express or implied, as to its accuracy or completeness and none is made as to the fitness of this material for any purpose. The manufacturer/distributor shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.</p>
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